

Amendments to the Claims

1. (Canceled)
2. (Currently Amended) A copolymer comprising consisting essentially of:
caprolactone units; and
fumarate units,
wherein the copolymer is prepared by reacting (i) poly(caprolactone) and (ii)
fumaric acid or a salt thereof, and
wherein the poly(caprolactone) has a molecular weight in the range of 500-
10000 daltons.
3. (Original) The copolymer of claim 2 wherein the copolymer has a number average molecular weight in the range of 3000 to 4000.
4. (Original) The copolymer of claim 2 wherein the copolymer has a polydispersity index in the range of 2 to 4.
5. (Original) The copolymer of claim 2 wherein the copolymer has a melting point in the range of 50°C to 70°C.
6. (Original) The copolymer of claim 5 wherein the copolymer is injectable at temperatures above the melting point.
7. (Original) The copolymer of claim 2 wherein the copolymer has a hardening point in the range of 30°C to 40°C.
- 8 (Canceled).
9. (Currently Amended) The copolymer of claim [[8]] 2 wherein the

copolymer is prepared by reacting poly(ϵ -caprolactone) and fumaryl chloride.

10. (Canceled).
11. (Canceled).
12. (Canceled).
13. (Canceled).
14. (Withdrawn) A crosslinkable, biodegradable material comprising: a copolymer including caprolactone units and fumarate units; and a free radical initiator.
15. (Withdrawn) The material of claim 14 wherein: wherein the material is an injectable bone substitute.
16. (Withdrawn) The material of claim 11 wherein: wherein the material is an injectable bone cement.
17. (Withdrawn) The material of claim 14 further comprising: a porogen.
18. (Withdrawn) The material of claim 14 further comprising: an accelerator.
19. (Withdrawn) The material of claim 14 wherein: the material does not include a crosslinking agent.
20. (Withdrawn) The material of claim 14 further comprising: particulate or fiber reinforcement materials.

21. (Withdrawn) The material of claim 14 wherein:
the reinforcement materials comprise hydroxyapatite.

22. (Withdrawn) The material of claim 14 wherein:
the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

23. (Withdrawn) A scaffold for tissue regeneration, the scaffold comprising:
a biodegradable matrix comprising a copolymer including caprolactone units and fumarate units.

24. (Withdrawn) The scaffold of claim 23 wherein:
the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

25. (Withdrawn) The scaffold of claim 23 wherein:
the matrix includes particulate or fiber reinforcement materials.

26. (Withdrawn) The scaffold of claim 25 wherein:
the reinforcement materials comprise hydroxyapatite.

27. (Withdrawn) The scaffold of claim 23 wherein:
the scaffold is porous.